

IN THE CLAIMS:

Please **AMEND** claims 1, 19-20, 22, and 25-31 as follows.

1. (Currently Amended) A method, ~~for performing multicast transmission in a cellular network, the method~~ comprising:

transmitting a multicast service notification to a certain multicast group, said notification configured to inform of an upcoming multicast session,

receiving the multicast service notification in mobile stations belonging to said multicast group,

in response to said receiving the multicast service notification, selecting a moment for a response to said multicast service notification in said mobile stations,

sending a presence report from at least one of said mobile stations at the response moment of said at least one mobile station,

receiving the presence report(s) in a radio access network,

setting up radio resources for multicast transmission in a cell of ~~the~~ a cellular network, when the presence report(s) received in said cell meet(s) predetermined criteria, and

transmitting the multicast data using the radio resources set up for the multicast transmission,

wherein the cellular network includes mobile stations ~~(MS)~~.

2. (Previously Presented) A method according to claim 1, wherein selecting a moment for a response, the response moment is specific to each of said mobile stations within a certain upcoming time period.

3. (Previously Presented) A method according to claim 2, further comprising:
informing at least some of said mobile stations of a presence report received in the radio access network and
in response to said informing step, canceling the sending of the presence report in a mobile station waiting for its response moment to arrive.

4. (Previously Presented) A method according to claim 3, wherein said informing step further includes sending a radio bearer assignment notification to said mobile stations in response to the setting up radio resources.

5. (Previously Presented) A method according to claim 2, wherein the selecting a moment for a response includes selecting a random response moment within said upcoming time period.

6. (Previously Presented) A method according to claim 5, further comprising sending information on the length of the time period in the multicast service notification.

7. (Previously Presented) A method according to claim 1, further including checking the locations of said mobile stations in the cellular network.

8. (Original) A method according to claim 7, wherein the locations are checked at the routing area level, whereby the identities of the routing areas are obtained where the mobile stations are located.

9. (Original) A method according to claim 8, wherein the transmitting of the multicast service notification includes transmitting said notification to all cells in the routing areas where the mobile stations are located.

10. (Previously Presented) A method according to claim 8, further comprising checking the locations of at least some of said mobile stations at the cell level, whereby a set of cells are obtained containing mobile stations belonging to the multicast group.

11. (Original) A method according to claim 10, wherein the transmitting of the multicast service notification includes transmitting said notification within all cells in the routing areas where the mobile stations are located, except within said set of cells.

12. (Original) A method according to claim 1, wherein the setting up of the radio resources is performed for a cell when the number of presence reports received from the cell reaches a predetermined limit.

13. (Original) A method according to claim 12, wherein said limit is one.

14. (Original) A method according to claim 2, wherein the transmitting of the multicast service notification includes transmitting said notification periodically during said time period.

15. (Previously Presented) A method according to claim 14, further comprising updating the length of the time period in the notifications transmitted periodically.

16. (Previously Presented) A method according to claim 1, further comprising monitoring the number of members of the multicast group in a cell during the multicast session.

17. (Previously Presented) A method according to claim 1, further comprising authenticating at least one of the mobile stations prior to the transmitting of the multicast data.

18. (Previously Presented) A method according to claim 17, wherein the authenticating at least one of the mobile stations includes inserting a challenge in the multicast service notification, and returning a response in the presence report.

19. (Currently Amended) A system, ~~for performing multicast transmission in a cellular network, the system~~ comprising:

a radio access network configured to transmit a multicast service notification to mobile stations belonging to a multicast group,

in said mobile stations, a ~~selection unit~~selector configured to select a moment for a response to said multicast service notification and further configured to send ~~for sending~~ a presence report to the radio access network when the response moment arrives, whereby the radio access network is further configured to receive the presence reports,

~~establishing unit~~a processor configured to establish radio resources for the multicast transmission in individual cells of ~~the a~~a cellular network, the ~~establishing unit~~processor being configured to establish the radio resources for a cell when the presence report(s) received in the cell meet(s) predetermined criteria.

20. (Currently Amended) A system according to claim 19, wherein the ~~establishing unit is~~processor is further configured to establish the radio resources for a cell when the number of presence reports received from the cell reaches a predetermined limit.

21. (Original) A system according to claim 20, wherein said limit is one.
22. (Currently Amended) A system according to claim 20, ~~further comprising termination unit in~~wherein said mobile stations, ~~said termination unit being~~ are further configured to cancel the sending of the presence report in response to the reception of a predetermined message.
23. (Previously Presented) A system according to claim 22, wherein at least one of the mobile stations is configured to cancel the sending of the presence report in response to receiving a presence report sent by another mobile station.
24. (Original) A system according to claim 22, wherein the predetermined message indicates that the radio resources have been established.
25. (Currently Amended) A system according to claim 19, wherein said ~~selection unit~~selector is further configured to select a random moment from within a given time period.
26. (Currently Amended) A system according to claim 19, wherein the system further comprises ~~authentication unit~~an authenticator configured to authenticate the mobile stations.

27. (Currently Amended) An apparatus, comprising: ~~mobile station for a cellular network, the mobile station comprising:~~

~~reception-unit~~ a receiver configured to receive a multicast service notification informing of an upcoming multicast session,

~~response-unit~~ a processor configured to select a moment for a response to said multicast service notification and further configured to send ~~for sending~~ a presence report at the response moment, the presence report indicating the willingness of the ~~mobile station~~ apparatus to receive the multicast service,

~~whereby~~ wherein the ~~reception-unit~~ receiver is further configured to receive a notification informing of a presence report sent by another ~~mobile station~~ apparatus.

28. (Currently Amended) An apparatus ~~mobile station~~ according to claim 27, wherein the ~~response-unit~~ processor is further configured to cancel the sending of the presence report in response to the notification informing of a presence report sent by another ~~mobile station~~ apparatus.

29. (Currently Amended) An apparatus ~~mobile station~~ according to claim 27, wherein the ~~response-means-unit~~ processor comprises ~~further includes~~ a timer ~~unit~~ configured to expire at the response moment.

30. (Currently Amended) A system, comprising: ~~for performing multicast transmission in a cellular network, the system comprising:~~

a radio access network ~~adapted~~ configured to transmit a multicast service notification to mobile stations belonging to a multicast group,

in said mobile stations, first processing means for selecting a moment for a response to said multicast service notification and for sending a presence report to the radio access network when the response moment arrives, whereby the radio access network is ~~adapted~~ configured to receive the presence reports,

second processing means for establishing radio resources for the multicast transmission in individual cells of the cellular network, the second processing means ~~being adapted to establish~~ for establishing the radio resources for a cell when the presence report(s) received in the cell meet(s) predetermined criteria.

31. (Currently Amended) An apparatus, comprising: ~~mobile station for a cellular network, the mobile station comprising~~

reception means for receiving a multicast service notification informing of an upcoming multicast session,

response means for selecting a moment for a response to said multicast service notification and for sending a presence report at the response moment, the presence report indicating the willingness of the ~~mobile station~~ apparatus to receive the multicast service,

~~whereby~~ wherein the reception means ~~are adapted to receive~~ are further for
receiving a notification informing of a presence report sent by another ~~mobile~~
~~station~~ apparatus.